

US-PAT-NO: 6487201

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TITLE: Method for managing received data in complex digital
cellular terminal

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INVENTOR-INFORMATION:

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US-CL-CURRENT: 370/394, 370/335

ABSTRACT:

A method for managing received data by a radio link protocol layer for interfacing data between a radio communication terminal and a data processing terminal of a complex digital cellular terminal. Data of a newly received frame is stored in a ring-type frame content buffer in reception order, and the stored frame is managed by a frame control table. If the newly stored frame and a previously stored frame have not successive frame numbers, the newly stored frame is registered in a negative acknowledge control table.

7 Claims, 7 Drawing figures

Exemplary Claim Number: 3

Number of Drawing Sheets: 6

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Application Filing Date - AD (1):

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Detailed Description Text - DETX (7):

The RLP layers 40a and 40b perform the transmitting and receiving tasks. The RLP layer 40a which performs the transmitting task frames the PPP data from the PPP layer 50a in the 20 ms frame unit and transmits the frame data to the IS95-A layer 30a. In this case, the RLP layer 40a should manage the frames transmitted therethrough for a prescribed time in order to process a negative acknowledge (NAK) frame transmitted from a destination terminal or the base station. Similarly, the RLP layer 40b which performs the receiving task assembles the frame from the IS95-A layer 30b into the PPP data and transmits the PPP data to the PPP layer 50b. In this case, the RLP layer 40b should confirm a frame sequence number and a frame check sequence (FCS). If there is a frame which is not normally received, the RLP layer 40b should transmit a NAK RLP frame to a destination terminal so as to re-receive that frame.